

Claims

What is claimed is:

1 1. An information processing system, comprising:
2 a first computing device for:
3 receiving a first information packet originating from a client;
4 in response to the first information packet, identifying a computing device that stores a
5 data structure of a connection with the client;
6 if the identified computing device is the first computing device, performing an operation
7 of an application in response to the first information packet; and
8 if the identified computing device is a second computing device, outputting a second
9 information packet to the second computing device for performing the operation in response to
10 the second information packet, the second information packet including a reference to the data
11 structure, the reference being included within a single header of the second information packet.

1 2. The system of Claim 1 wherein the second information packet includes the first
2 information packet.

1 3. The system of Claim 1 wherein the operation is a first operation, and wherein the
2 reference includes an IP address of the client, a port of a second application executed by the
3 client, an IP address of the second computing device, and a port of the first application executed
4 by the second computing device.

1 4. The system of Claim 3 wherein the port of the first application is a TCP port.

1 5. The system of Claim 3 wherein the port of the first application is a UDP port.

1 6. The system of Claim 1 wherein the first computing device is for receiving the first
2 information packet through a global computer network.

1 7. The system of Claim 6 wherein the first computing device is for:
2 if the identified computing device is a second computing device, outputting the second
3 information packet to the second computing device through a local area network.

1 8. The system of Claim 1 wherein the application is a socket application.

1 9. The system of Claim 1 wherein the first computing device is a network interface
2 card.

1 10. The system of Claim 1 wherein the first information packet is addressed by the
2 client to the first computing device, and wherein the first computing device is for receiving the
3 first information packet in response to the addressing.

11. A method performed by a first computing device of an information processing system, the method comprising:

receiving a first information packet originating from a client;

in response to the first information packet, identifying a computing device that stores a data structure of a connection with the client;

if the identified computing device is the first computing device, performing an operation of an application in response to the first information packet; and

if the identified computing device is a second computing device, outputting a second information packet to the second computing device for performing the operation in response to the second information packet, the second information packet including a reference to the data structure, the reference being included within a single header of the second information packet.

12. The method of Claim 11 wherein the second information packet includes the first information packet.

13. The method of Claim 11 wherein the operation is a first operation, and wherein the reference includes an IP address of the client, a port of a second application executed by the client, an IP address of the second computing device, and a port of the first application executed by the second computing device.

14. The method of Claim 13 wherein the port of the first application is a TCP port.

15. The method of Claim 13 wherein the port of the first application is a UDP port.

16. The method of Claim 11 wherein the method comprises:

receiving the first information packet through a global computer network.

17. The method of Claim 16 wherein the method comprises:

if the identified computing device is a second computing device, outputting the second information packet to the second computing device through a local area network.

1 18. The method of Claim 11 wherein the application is a socket application.

1 19. The method of Claim 11 wherein the first computing device is a network interface
2 card.

1 20. The method of Claim 11 wherein the first information packet is addressed by the
2 client to the first computing device, and wherein the method comprises:
3 receiving the first information packet in response to the addressing.